

Title (en)

METHOD FOR ADDITIVELY MANUFACTURING A THREE-DIMENSIONAL OBJECT

Title (de)

VERFAHREN ZUR GENERATIVEN FERTIGUNG VON EINEM DREIDIMENSIONALEN OBJEKT

Title (fr)

PROCÉDÉ DE FABRICATION ADDITIVE D'UN OBJET TRIDIMENSIONNEL

Publication

EP 3517276 A1 20190731 (EN)

Application

EP 18153284 A 20180124

Priority

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Abstract (en)

Method for additively manufacturing at least one three-dimensional object (2) by means of successive layerwise selective irradiation and consolidation of layers (3) of build material (4) which can be consolidated by means of at least one energy beam (5), comprising the steps of:- providing a plurality of process parameter sets (PPS1 - PPSn) each comprising a plurality of process parameters (PP1 - PPn) allowing for a selective consolidation of a layer (3) of build material (4), whereby each process parameter set (PPS1 - PPSn) results in specific properties of the microstructure of an area of the respective layer (3) of build material (4) which was selectively irradiated and consolidated on basis of the respective process parameter set (PPS1 - PPSn);- using at least two different process parameter sets (PPS1 - PPSn) of the plurality of process parameter sets (PPS1 - PPSn) for additively manufacturing at least one three-dimensional object (2) by means by means of the successive layerwise selective irradiation and consolidation of layers (3) of build material (4) which can be consolidated by means of at least one energy beam (5).

IPC 8 full level

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CPC (source: CN EP US)

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Citation (search report)

- [X1] EP 3025809 A1 20160601 - ALSTOM TECHNOLOGY LTD [CH]
- [XA1] EP 2586548 A1 20130501 - ALSTOM TECHNOLOGY LTD [CH]
- [X] WO 2017099478 A1 20170615 - KOREA IND TECH INST [KR]

Designated contracting state (EPC)

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